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RECORDING SYSTEM AND METHOD USING A VISCOUS EFFECT OF ORGANIC COMPOUND

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ABSTRACT

PURPOSE: To improve a response to obtain a small-size device enhanced in durability and reliability by using an ink mainly composed of a compound having two wave ranges in which an optical viscous effect is induced and a light source corresponding to the wave ranges.

CONSTITUTION: An ink is kept in a fluid state by heat or optical energy and fed to the vicinity of a delivery port 4. Furthermore, the ink can be pressurized at this time. The delivery of the ink in the vicinity of the delivery port 4 is controlled by a light source 2 which corresponds to a wave range in accordance with a series of information signals. The ink is composed of an organic compound having two or more wave ranges in which an optical viscous effect is induced, a colorant, and a solvent. In this construction, the viscosity change speed of the ink is enhanced, and a recording can be conducted with high response. In addition, an image can be directly formed by a non-contact recording method; therefore, the durability and reliability of a recorder can be improved, and the recorder can be made small in size.